

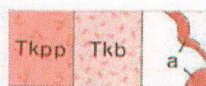
EXPLANATION
Map and Symbols Projected From:
Geologic Map of the Park City East Quadrangle, Summit and Wasatch Counties, Utah
 by
Calvin S. Bromfield and Max D. Crittenden, Jr.
 1971

Keeley Volcanics

Surficial deposits
 Qal, alluvium along larger drainages
 Qls, landslide deposits

Alluvium and glacial deposits
 Qoa, older alluvium; generally forms terraces adjacent to larger drainages, and caps high surfaces near Weber River just northeast of the map area. Not necessarily all of same age
 Qm, glacial moraine

Breccias, tuff, and flows
 Tkn, andesite of ridges along Neel Hollow; dark andesite flows and breccias forming the uppermost volcanic unit in the quadrangle
 Tkt, andesitic flow of Todd Hollow; deep-red-brown or blue-gray-weathering andesitic flow and associated breccia, with scattered plagioclase phenocrysts as much as 5mm in size
 Tkrf, Rhyodacitic Rocks east of Richardson Flat; dark-gray hornblende rhyodacitic flows and subordinate breccia
 Tksh, rhyodacitic rocks north of Sage Hen Hollow; medium-gray hornblende-biotite rhyodacitic flows.
 Tkp, tuffs north and east of Mountain Meadows - interbedded light-yellow and yellowish gray fine grained tuff, volcanic gravels, and thin lahars, in part probably deposited in a lake or reworked by streams. Interbedded and intertonguing upward into coarser breccias of Silver Creek (Tksc). In part equivalent to the Peoa Tuff of Willes (1962) 1 m marker-bed
 Tksc, breccia of Silver Creek; chiefly light gray rhyodacitic to andesitic volcanic breccia, but also a few interbedded tuffs; in places the breccias are coarse and blocks from 50 to 200 tons are common. In part breccias are monolithologic and in places heterolithologic. Flow breccias in part, but probably laharic breccias more common. Similar to and probably equivalent in part to the volcanic breccia of Coyote Canyon to the south in the Heber quadrangle.
 m, marker bed
 Exotic blocks, principally of extensively brecciated Mesozoic sedimentary rocks. Larger areas shown by triangle overprint and formation:
 en, Nugget Sandstone
 eu, upper member of Ankareh Formation
 eg, Garta Grit Member of Ankareh Formation
 em, Mahogany Member of Ankareh Formation
 ea, red beds of Ankareh Formation
 undifferentiated
 et, Thaynes Formation
 ew, Weber Quartzite
 +, smaller exotic block undifferentiated



Intrusive rocks
 Tkpp, rhyodacite porphyry of Park Premier stock; dark- to light-gray and greenish-gray hornblende rhyodacite containing abundant phenocrysts of plagioclase, hornblende, biotite, and a little pyroxene. To the southeast the phenocrysts are generally 1 mm Ø or less in size; to the northeast 2- to 3- mm phenocrysts are common. Unit may include some extrusive equivalents
 Tkb, rhyodacite porphyry of Bone Hollow; dark-gray- to gray-green hornblende biotite rhyodacite porphyry. Phenocrysts generally are larger than in the rhyodacite porphyry of Park Premier stock; Unit possibly is only a textural variety of that stock
 a, dikes of andesitic to rhyodacitic composition with hornblende and feldspar phenocrysts

TERTIARY

QUATERNARY

Upper Triassic

Lower Triassic

JURASSIC
(?) AND
TRIASSIC (?)

TRIASSIC

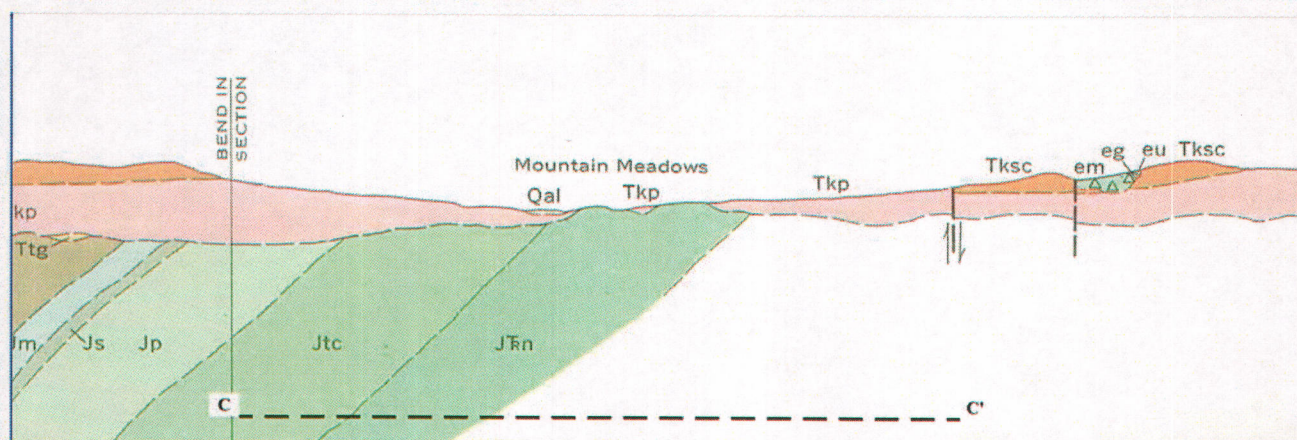
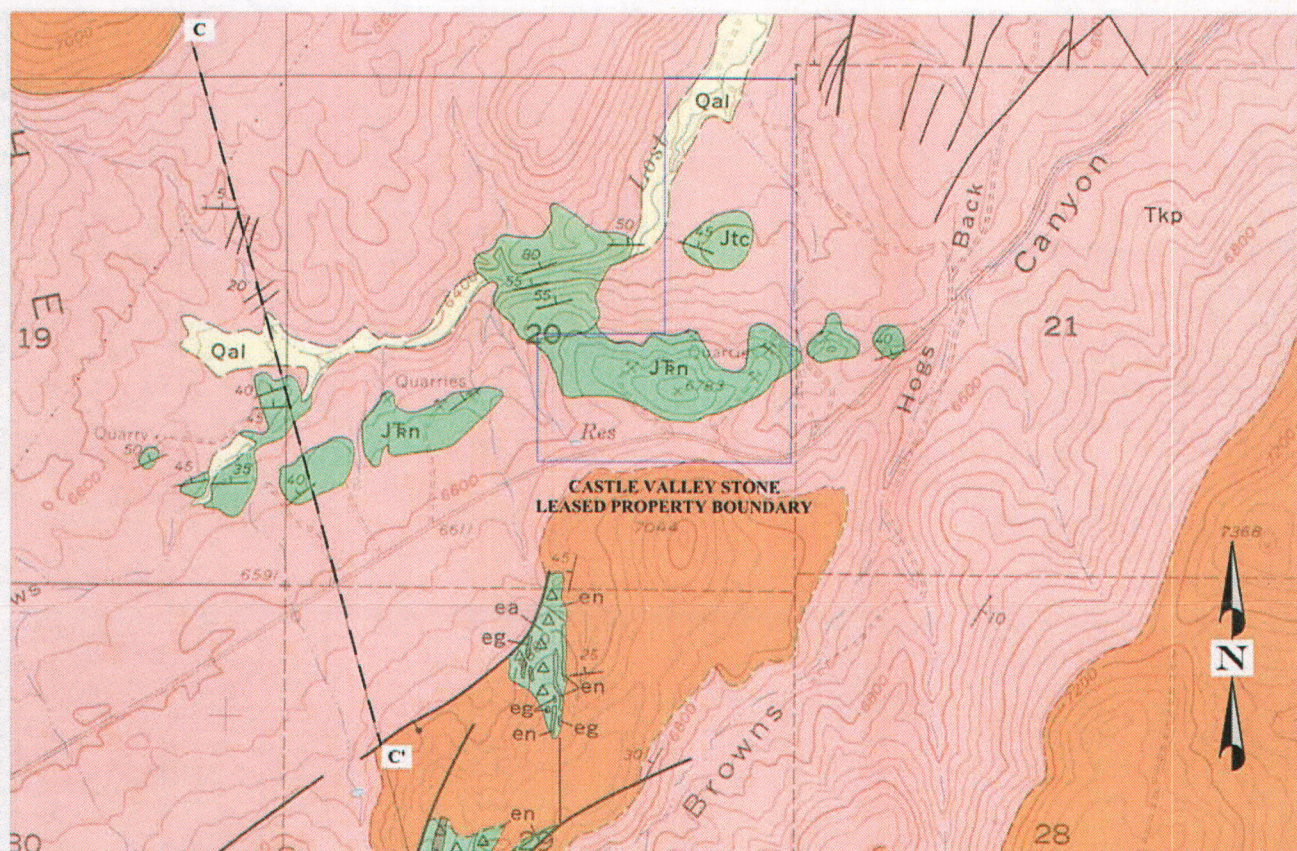
Jtc
 Twin Creek Limestone
 Olive-drab-weathering pencil-jointed dense limestone

Jfn
 Nugget Sandstone
 Pale-orange medium-grained crossbedded sandstone

Kau
Kag
Kam
 Ankareh Formation
 Kau, upper member: moderate-red, grayish-red, and grayish-purple mudstone and fine-grained sandstone
 Kag, Garta Grit Member: white to pale-purple massive crossbedded coarse-grained to pebbly quartzite
 Kam, Mahogany Member: purplish-gray and pale-red ripple-laminated sandstone, purplish mudstone, and a few thin limestone beds

Et
 Thaynes Formation
 Brown-weathering fine-grained limy sandstone and siltstone, interbedded with olive-green to dull-red shale and gray fine-grained fossiliferous limestone

EW
 Woodside Shale
 Dark- and purplish-red shale, siltstone, and very fine grained sandstone



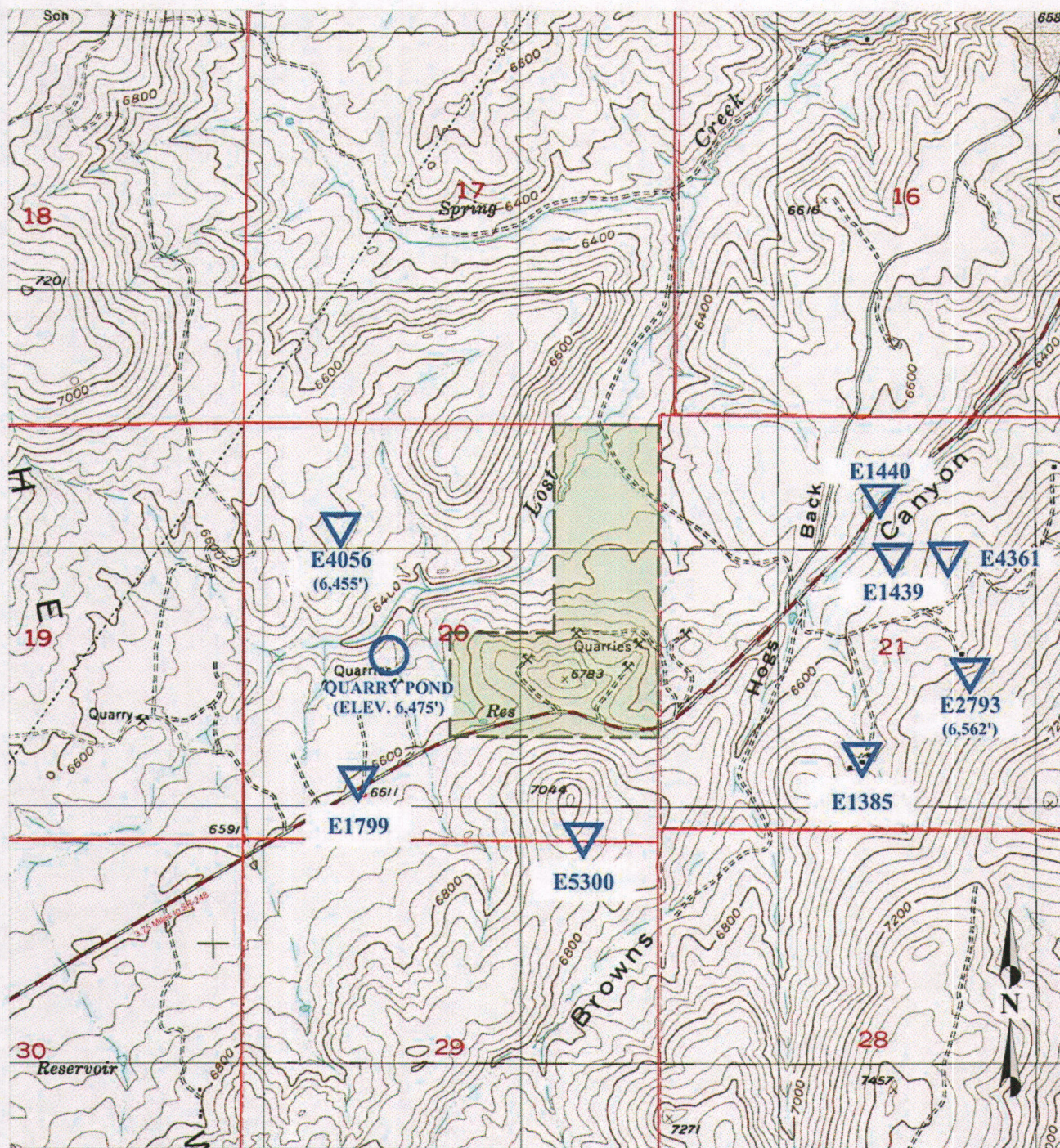
0 2,000' 4,000'
 1" = 2,000'
 Base Map: Park City East Quadrangle, Utah
 7.5 Minute series

CASTLE VALLEY STONE, LLC
Brown's Canyon Rock Quarry
EXHIBIT F - Geologic Map
 T1S, R5E
 Summit County, Utah

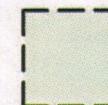
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LEGEND



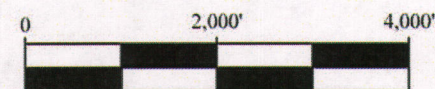
**CASTLE VALLEY STONE
LEASED PROPERTY
BOUNDARY**



**WATER RIGHT WELL
(WELL GROUNDWATER ELEVATION)**



POND WITH GROUNDWATER



Base Map: Park City East Quadrangle, Utah
7.5 Minute series

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Brown's Canyon Rock Quarry

EXHIBIT G - WATER RIGHTS

T1S, R5E

Summit County, Utah

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